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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/784,227	02/24/2004	Tomoyuki Yamamoto	HIRA.0133 1578	
7590 08/18/2006			EXAMINER	
REED SMITH LLP			FORMAN, BETTY J	
Suite 1400 3110 Fairview Park Drive			ART UNIT	PAPER NUMBER
Falls Church, V	Falls Church, VA 22042			
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/784,227	YAMAMOTO ET AL.			
Office Action Summary	Examiner	Art Unit			
	BJ Forman	1634			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on	_•				
2a) This action is FINAL . 2b) ⊠ This	action is non-final.				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 4 and 5 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 4 and 5 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 24 February 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex	: a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/797,918. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

Priority

1. This application is a Divisional Application of U.S. Patent No. 6,733,968. This application also claims priority to JP 2000-60787, filed 6 March 2000. However, an English language translation of the foreign priority document has not been provided. Therefore, the effective filing date for the instant claims is the filing date of the parent application i.e. 1 March 2001.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 4 and 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 4 and 5 are indefinite in Claim 4, line 11 for the recitation "a measured value" because it is unclear whether the value refers to the measured amount of line 5 or some other non-described value. It is suggested the claim be amended to clarify.

Claim 5 is indefinite for the recitation "information for identifying pins used for immobilizing the samples to the respective sample spot locations" because the method of Claim 4 does not use "information", does not identify pins, does not immobilize samples and support does not have spot "locations" or "respective" spot locations. Therefore the recitations of Claim 5 lack proper antecedent basis in Claim 4. Furthermore, it is unclear whether Claim 5 further defines the method of Claim 4.

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Claim Rejections - 35 USC § 102

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4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claim 4-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Drmanac (U.S. Patent No. 6,025,136, issued 15 February 2000).

Regarding Claims 4-5, Drmanac discloses a method for correcting pin spotting errors or a microarray, the microarray produced by repeated spotting of sample onto a support using a device having a plurality of pins (e.g. 96-pin device). Drmanac discloses the method wherein the device spots sample to a plurality of spots (Example 3, Column 5, lines 40-62), measuring amounts spotted to obtain correction parameter (i.e. normalization) and correcting a measured value of the each sample by using the obtained parameter (i.e. normalized signals, Example 5, Column 7, lines 7-23).

Double Patenting

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

7. Claims 4 and 5 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 4-5 of U.S. Patent No. 6,453,243 in view of Kowallis et al (WO 99/22867, published 14 May 1999).

Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims are drawn to methods for evaluating and correcting spotting errors on biochips. The claim sets differ in that the instant claims define the tool for spotting as a device having a plurality of pins while the '243 claims are silent regarding a spotting device. However, the instantly claimed spotting pins were well known and routinely practiced in the art at the time the claimed invention was made as taught by Kowallis et al who teaches that the multi-pin device allows parallel deposition in several areas to provide high density arrays (Abstract). It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to apply the multi-pin device of Kowallis et al to the method of the patent claims thereby obtaining the instantly claimed invention. One of ordinary skill in the art would have been motivated to do so for the expected benefit of providing parallel deposition in several areas thereby providing high density arrays as taught by Kowallis et al (Abstract).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

- 8. No claim is allowed.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BJ Forman whose telephone number is (571) 272-0741. The examiner can normally be reached on 6:00 TO 3:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla can be reached on (571) 272-0735. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

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For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

BJ Forman, Ph.D. Primary Examiner Art Unit: 1634 August 15, 2006